

Message Text

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ACTION OES-05

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OFA-01 COME-00 DODE-00 EB-07 EPA-04 INR-07 IO-11 L-03

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UNCLAS SECTION 1 OF 2 OTTAWA 825

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TAGS: SENV, ENRG, CA

SUBJ: BEAUFORT SEA

FOLLOWING IS DRAFT OF ENVIRONMENTAL CONDITIONS FOR DRILLING
AUTHORITIES FOR ISSUING BY CANADIAN GOVERNMENT TO DOME
PETROLEUM RELATIVE TO BEAUFORT SEA PROJECT:

BEGIN TEXT:

SUBSEQUENT TO A MEETING OF THE ARCTIC WATERS OIL & GAS
ADVISORY COMMITTEE ON FEBRUARY 14, 1976, THE FOLLOWING ARE
THE ENVIRONMENTAL CONDITIONS TO FORM A PART OF THE DRILL-
INFO AUTHORITIES FOR CANMAR'S TWO DRILLSITES, NAMELY GULF
DOME ET AL TINGMIARK K-91 AND HUNT DOME KOPANOAR D-14.

1. THE OPERATOR SHALL CARRY OUT AN OCEANOGRAPHIC OBSERVATION
PROGRAM TO MEASURE:

(A) SURFACE CURRENTS ASSOCIATED WITH THE SURFACE WATER LAYER

(B) SUBSURFACE WATER CURRENTS ASSOCIATED WITH THE HIGHER

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SALINITY WATER BENEATH THE FRESHER SURFACE WATER

(C) SALINITY AND TEMPERATURE VERSUS DEPTH PROFILES, AND

(D) TURBIDITY PROFILES

INTERVALS AT WHICH THESE MEASUREMENTS SHALL BE TAKEN SHALL BE DISCUSSED AND FORMULATED PRIOR TO THE COMMENCEMENT OF THE DRILLING OPERATION IN CONSULTATION WITH THE CHAIRMAN OF THE ARCTIC WATERS OIL AND GAS ADVISORY COMMITTEE.

2. THE OPERATOR MUST RECORD SITINGS OF WILDLIFE IN THE AREA OF THE DRILLSHIPS AND INCIDENTAL SITINGS IN CONJUNCTION WITH ICE RECONNAISSANCE AND DRILLSHIP SUPPORT ACTIVITIES AND REPORT SUCH SITINGS TO THE CHAIRMAN OF THE ARCTIC WATERS OIL AND GAS ADVISORY COMMITTEE ON A MONTHLY BASIS.

3. THE OPERATOR SHALL BE REQUIRED TO ACQUIRE 7,000 FEET OF BENNETT NAVY BOOM WITH A VIEW TO CARRYING 500 FEET ABOARD EACH OF THE FOUR SUPPLY VESSELS AND 1,500 FEET ABOARD EACH DRILLSHIP, WITH THE REMAINING 2,000 FEET TO BE STORED AT THE DOME BEAUFORT SEA SUPPLY BASE CAMP.

4. THE OPERATOR SHALL BE REQUIRED TO EQUIP EACH OF THE FOUR SUPPLY VESSELS WITH A WORK BOAT, (A 16 TO 20 FOOT RUNABOUT WITH A 25 HP. ENGINE OR EQUIVALENT) THAT CAN BE USED IN THE DEPLOYMENT OF BOOM AND TO TEND TO THE POLLUTION EQUIPMENT, IE. UNSNARLING BOOM, REPAIRING BREAKS, BAULING SEPARATORS, ETC. AT THE WATER LEVEL.

5. OIL SPILL COUNTERMEASURES PLANS HAVE BEEN PUT FORWARD BY DOME WHICH INCLUDE MARINE OFFSHORE AND INSHORE CLEANUP DURING THE OPEN WATER PERIOD AND VARIOUS MEASURES FOR USE WHEN SEA ICE IS PRESENT. TO VARYING DEGREES, IT WILL BE POSSIBLE FOR DOME TO ACTUALLY DEPLOY THE EQUIPMENT AND TEST ITS LIMITATIONS. SUCH TESTS COULD BE EXPECTED TO RESULT IN MODIFICATIONS TO PLANS AND EQUIPMENT TO IMPROVE THEIR EFFECTIVENESS.

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DETAILS ARE AS FOLLOWS:

(A) REGARDING OFFSHORE OPEN WATER OIL SPILL COUNTERMEASURES PLANS ONE OR MORE FULL-SCALE TESTS OF MARINE COUNTERMEASURES EQUIPMENT IS REQUIRED DURING THE OPEN WATER SEASON OF 1976. THIS SHOULD BE IN THE NATURE OF A "FIRE DRILL". THE PLAN FOR THE TEST MUST BE APPROVED AND THE TEST ITSELF MUST BE WITNESSED BY A

GOVERNMENT OBSERVER DESIGNATED BY THE ARCTIC WATERS OIL AND GAS ADVISORY COMMITTEE. THE TEST IS TO BE REPORTED FULLY TO THE CHAIRMAN OF THE ARCTIC WATERS OIL AND GAS ADVISORY COMMITTEE WITH THE AIM OF DEFINING FACTORS SUCH AS:

(I) MOBILIZATION TIME,

(II) EFFECTIVENESS OF DIFFERING CONFIGURATIONS,

(III) LIMITATIONS AND EXPECTED EFFICIENCY IN VARIOUS SEA, WIND AND CURRENT STATES.

(B) REGARDING INSHORE OPEN WATER OIL SPILL COUNTER-MEASURES PLAN IT IS RECOMMENDED THAT DURING 1976:

(I) DOME MUST DESIGNATE TO THE SATISFACTION OF THE ARCTIC WATERS OIL AND GAS ADVISORY COMMITTEE, ALL COASTAL BAYS, LAGOONS AND INLETS WHICH ARE OF SIGNIFICANT ECOLOGICAL IMPORTANCE. ACCOUNT MUST BE TAKEN OF CHANGES IN THEIR SIGNIFICANCE FOR VARIOUS OPEN WATER MONTHS. THESE WOULD BE INSHORE AREAS WHICH WOULD WARRANT SPECIAL PROTECTION IN THE EVENT OF AN OFFSHORE OIL WELL BLOWOUT.

(II) APPROPRIATE GOVERNMENT AGENCIES AND DOME ARE TO AGREE ON CHOICES MADE IN (I).

(III) DOME IS TO VERIFY TO THE ARCTIC WATERS OIL AND GAS ADVISORY COMMITTEE THAT SUFFICIENT AND SATISFACTORY COUNTERMEASURES EQUIPMENT EXISTS AT DEPOTS CLOSE ENOUGH TO COASTAL AREAS LIKELY IN NEED OF PROTECTION SUCH THAT, UNDER FAVOURABLE WEATHER CONDITIONS, AT LEAST FOUR OF THE INSHORE AREAS DESIGNATED IN PARAGRAPH (I) CAN BE UNCLASSIFIED

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PROTECTED.

(IV) DOME IS TO SATISFY THE ARCTIC WATERS OIL AND GAS ADVISORY COMMITTEE THAT A TECHNIQUE OR SYSTEM IS AVAILABLE TO TRACK THE PATH OF OIL IN OPEN WATER.

(V) DOME IS TO TEST THE CAPABILITIES OF INSHORE EQUIPMENT AND COUNTERMEASURES PLANS IN A SIMULATED OIL SPILL EMERGENCY BY DEPLOYING EQUIPMENT TO PROTECT AT LEAST ONE INLET OR INSHORE AREA DESIGNATED BY THE CHAIRMAN OF THE ARCTIC WATERS OIL AND GAS ADVISORY COMMITTEE.

(VI) BASED ON THE RESULTS OF THE EXERCISE IN PARAGRAPH (V) DOME IS TO PROVIDE A DETAILED REPORT, SATISFACTORY TO THE CHAIRMAN OF THE ARCTIC WATERS OIL AND GAS

ADVISORY COMMITTEE ON THE EFFECTIVENESS OF THEIR
INSHORE OIL SPILL COUNTERMEASURES PLANS; THIS REPORT
WILL INCLUDE SUGGESTIONS FOR IMPROVEMENTS.

6. BOTTOM SCOURING BY SEA ICE KEELS IS PREVALENT
ON THE CONTINENTAL SHELF OF THE SOUTHEASTERN BEAUFORT SEA.
THE OPERATOR SHALL DESIGN ALL SUB-SEA EQUIPMENT TO RESIST
OR AVOID IMPACT WITH SUB-ICE PROJECTIONS EXTENDING AS
DEEP AS 47 METERS FROM THE SEA SURFACE OR TO FAIL IN A
MANNER THAT LEAVES THE ENVIRONMENT SAFE.

7. THE OPERATOR SHALL DISPOSE OF DRILLING FLUIDS
IN ACCORDANCE WITH THE OCEAN DISPOSAL PROGRAM SPECIFIED
BELOW:

(A) OIL STAINED CUTTINGS AND OTHER SOLIDS STAINED
WITH OIL SHALL NOT BE DISPOSED OF IN THE BEAUFORT SEA.

(B) ANY HYDROCARBONS INCLUDING LUBRICATING OILS
AND GREASES SHALL BE SEGREGATED AND TOTALLY CONTAINED AND
SHALL BE DISPOSED OF IN A MANNER APPROVED BY THE CHAIRMAN
OF THE ARCTIC WATERS OIL AND GAS ADVISORY COMMITTEE.

(C) PRIOR TO THE DISCHARGE OF ANY DRILLING FLUIDS
(INCLUDING THOSE FLUIDS DISPOSED OF UPON WELL COMPLETION)
AND DRILL CUTTINGS INTO THE OCEAN, THIS WASTE, EXCLUDING
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ANY OIL CONTAMINATED WASTE, SHALL BE DILUTED WITH THE

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RECEIVING WATER. THE DILUTION RATIO OF RECEIVING WATER TO DRILLING WASTE SHOULD BE SUCH THAT THE RESULTING DILUTED WASTE WILL CAUSE NO MORTALITY OF FISH IN THE STANDARD 96 HOUR STATIC BIO-ASSAY TEST ADOPTED FOR DRILLING WASTE. AN INITIAL DILUTION RATIO OF AT LEAST 25:1 SHALL BE USED.

(D) PRIOR TO THE DISCHARGE OF ANY DILUTED WASTE THE PH SHALL BE ADJUSTED TO BE WITHIN THE RANGE 6.0 AND 9.5.

(E) THE DILUTED AND NEUTRALIZED WASTE SHALL BE DISCHARGED BELOW THE SURFACE OF THE WATER.

(F) THE OPERATOR SHALL ACCURATELY MEASURE AND MAKE AVAILABLE IN A WRITTEN REPORT FORM TO THE CHAIRMAN OF THE ARCTIC WATERS OIL AND GAS ADVISORY COMMITTEE WITHIN NINETY (90) DAYS OF RIG RELEASE THE FOLLOWING:

(I) THE DAILY AND THE TOTAL FINAL VOLUME OF DRILLING WASTE DISCHARGED TO THE OCEAN PRIOR TO DILUTION.

(II) THE DAILY VOLUME OF RECEIVING WATER
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USED TO DILUTE THE DRILLING WASTE PRIOR TO DISCHARGE.

(III) A DRAWING SHOWING ALL PUMPS, PIPING AND METERS USED IN THE DILUTION AND NEUTRALIZATION PROGRAM AND THE LOCATION OF THE SAMPLING POINTS.

(IV) THE TYPES AND QUANTITIES OF MUD ADDITIVES USED DURING THE OPERATION.

(V) THE VOLUME OF HYDRAULIC FLUIDS DISPOSED OF DURING THE COMPLETE OPERATION, AND THE REASON FOR THIS DISPOSAL.

(VI) THE LOCATION OF ALL LAND-BASED DISPOSAL SITES.

(G) THE OPERATOR SHALL TAKE SAMPLES OF DRILLING WASTES PRIOR TO DILUTION OR NEUTRALIZATION AT DRILLING DEPTHS OF 2,000 AND 7,500 FEET, AND AT FINAL TOTAL DEPTH IN ORDER TO SAMPLE THE TOXIC CHARACTERISTICS OF THE MUD TYPE. SAMPLES SHALL ALSO BE TAKEN AT SUCH OTHER DEPTHS AS THERE IS A SUBSTANTIAL CHANGE IN THE MUD PROGRAM. IF ANY CHANGES ARE TO BE MADE TO THE MUD PROGRAM A MODIFICATION IN THE SAMPLING PROGRAM MAY BE REQUIRED. ANY PROPOSED CHANGES SHOULD THEREFORE BE FILED WITH THE CHAIRMAN OF THE ARCTIC WATERS OIL AND GAS ADVISORY COMMITTEE PRIOR TO THEIR BEING INSTITUTED.

SAMPLES SHALL BE SUBJECTED TO BIO-ASSAY IN ORDER TO DETERMINE THE LC50 OF THE WASTE, IN ACCORDANCE WITH THE PROCEDURE ESTABLISHED BY THE CHAIRMAN OF THE ARCTIC WATERS OIL AND GAS ADVISORY COMMITTEE. TESTING OF THE DRILLING WASTE AT CONCENTRATIONS NORMALLY FOUND IN THE ACTUAL ON-SITE DILUTED WASTE DISCHARGE SHOULD BE CARRIED OUT AS PART OF THE BIO-ASSAY. THE VOLUME OF SAMPLE REQUIRED SHALL BE SPECIFIED BY THE LABORATORY CARRYING OUT THE BIO-ASSAY.

ALL BIO-ASSAYS SHALL BE CONDUCTED BY AN INDEPENDENT LABORATORY.

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THE SAMPLES TAKEN FOR BIO-ASSAY SHALL BE ANALYZED FOR OIL AND GREASE IN ACCORDANCE WITH THE PROCEDURES ESTABLISHED BY THE CHAIRMAN OF THE ARCTIC WATERS OIL AND GAS ADVISORY COMMITTEE.

THE RESULT OF THE BIO-ASSAY TESTS AND THE OIL AND GREASE ANALYSES AND THE NAME AND ADDRESS OF THE LABORATORY USED TO UNDERTAKE THIS WORK, AND THE DILUTION RATION BEING USED AT THE TIME WHEN THE UNDILUTED SAMPLE WAS TAKEN SHALL BE REPORTED IN WRITING TO THE CHAIRMAN OF THE ARCTIC WATERS OIL AND GAS ADVISORY COMMITTEE WITHIN NINETY (90) DAYS OF RIG RELEASE.

THE PH OF THE DILUTED DRILLING WASTE SHALL BE MEASURED ONSITE AT LEAST ONCE PER DAY DURING PERIODS OF DISCHARGE TO THE OCEAN. A SUMMARY OF THE DAILY PH READINGS SHALL BE SUBMITTED IN WRITING TO THE CHAIRMAN OF THE ARCTIC WATERS OIL AND GAS ADVISORY COMMITTEE WITHIN NINE (90) DAYS OF RIG RELEASE.

8. NOTWITHSTANDING CONDITION 7 THE FOLLOWING MATERIAL SHALL NOT BE USED AS DRILLING MUD COMPONENTS BECAUSE OF

THEIR EXTREME TOXICITY AND/OR PERSISTANCE WITHOUT PRIOR
WRITTEN APPROVAL OF THE CHAIRMAN OF THE ARCTIC WATERS
OIL AND GAS ADVISORY COMMITTEE:

CHLORINATED PHENOLS
COMPOUNDS COMPOSED PRIMARILY OF HEAVY METALS FOR EXAMPLY WEIGHT
AGENTS WITH HIGH CONCENTRATIONS OF GALENA

ASBESTOS

9. STEAM AND/OR WATER SHALL BE THE ONLY METHODS EMPLOYED
IN RIG WASHING.

10. THE OPERATOR SHALL TREAT WASTES PRIOR TO DISPOSAL
IN SUCH A MANNER AS TO ATTAIN A DAILY AVERAGE OF 35 MG/1
OF OIL AND GREASE AND NOT TO EXCEED AT ANY TIME 50 MG/1
OF OIL AND GREASE.

11. NO GARBAGE SHALL BE DISPOSED OF INTO THE BEAUFORT SEA.

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12. THE OPERATOR SHALL DISPOSE OF SANITARY WASTES INTO
THE OCEAN CONSISTANT WITH GOOD PRACTICES AS SPECIFIED IN
THEIR DRILLING APPLICATION OF 15 DECEMBER 1975.

13. THE OIL SPILL CONTINGENCY PLAN IS APPROVED SUBJECT
TO MODIFICATIONS ON A CONTINUING BASIS AS MORE INFORMATION
IS RECEIVED FROM THE BEAUFORT SEA PROJECT AND THE EXERCISES
TO TEST THE CAPABILITY AND EFFECTIVENESS OF CLEANUP EQUIP-
MENT PROCEDURES AS DETAILED IN THE DRILLING AUTHORITY.

14. THE OPERATOR SHALL, IN ACCORDANCE WITH PART 1,
SECTION 7 OF THE ARCTIC WATERS POLLUTION PREVENTION REGU-
LATIONS, REPORT IMMEDIATELY THE DEPOSIT OR DANGER OF DEPOSIT
OF WASTE OTHER THAN THOSE PERMITTED IN THE CONDITIONS TO
ONE OF THE FOLLOWING POLLUTION PREVENTION OFFICERS AT
TELEPHONE 403-873-4421 OR TELEX 037-4-5519.

A.G. REDSHAW HOME TELEPHONE 403-873-4280

M.D. THOMAS HOME TELEPHONE 403-873-4250

R.W. HORNET HOME TELEPHONE 403-873-2329

SHOULD AN UNAUTHORIZED DEPOSIT OF WASTE OCCUR WRITTEN
WEEKLY PROGRESS REPORTS AND A FINAL REPORT ON THE CAUSE
OF THE DEPOSIT AND THE PROCEDURES FOLLOWED AND EQUIP-
MENT USED TO CONTAIN AND CLEANUP THIS WASTE SHALL BE
FILED WITH THE CHAIRMAN OF THE ARCTIC WATERS OIL AND
GAS ADVISORY COMMITTEE. 14 FEBRUARY 1976 END TEXT
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